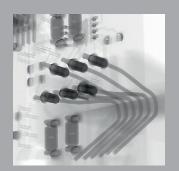


X8011-II PCB

Very Precise Offline X-rays – Intelligently Networked and Future-Oriented



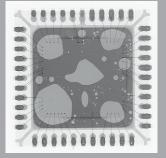
Brilliant Image Quality, Optimized Proce



THTs under angled radiation



QFP orthogonal radiation



QFN orthogonal radiation



BGA under angled radiation

Fast automatic inspection and highly precise random sample checking in one system

Very long service life, flexible use

Powerful open microfocus transmission tube; sealed direct beam tube optional

Highest magnification and excellent images

Use of high-quality flat-screen detectors

Intuitive operation and comprehensive analysis functions: Viscom XMC and Viscom SI

Upgrade possible with Viscom proprietary computed tomography

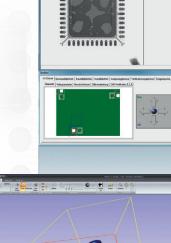
EasyClick principle for easy mounting of handling units

XVR-CT analysis by Viscom

Unique Quality Uplink for simplified classification and process control

Worldwide competent on-site service hotline and remote maintenance

In modern SMD production, components such as BGA, QFN or QFP are gaining ground. Because their connectors are mostly hidden, many solder joints can only be reliably checked with an X-ray inspection. The high resolution X-ray inspection system X8011-II PCB was developed especially for these tasks. Typical applications are, for example, the inspection of electronic assemblies and components, quality assurance in power electronics, or non-destructive special inspections. With the X8011-II PCB, electronics manufacturers can draw on the first-class automatic analysis routines of the Viscom AXI family X7056 with this off-line solution as well. Through the simultaneous availability of the automatic X-ray analysis (Viscom SI) and the manual or semi-automatic inspection (Viscom XMC), this system offers the highest flexibility.





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First-class inspection results, great system versatility

With the X8011-II PCB, Viscom offers a smart and economical X-ray inspection system. The application scope reaches from random sample analysis and special inspection of individual components up to automatic start-up support and small series inspection. Thanks to integration of the proven automatic SI inspection analyses, the system is ideally suited for high-mix low-volume manufacture.

The heart of the X-ray technology is the **open Viscom microfocus transmis**sion tube (up to 200 kV) with high resolution. Optionally, a **sealed direct** beam tube (up to 130 kV), for example, can also be employed. Both tubes are distinguished by their **stable X-ray radiation during continuous opera**tion. High resolution **digital flat panel detectors** are used for the highest magnifications and **optimum image quality** for evaluation of X-ray images. The practice-oriented, modular Viscom system concept offers practically every individual user **optimum inspection possibilities.**

> The Viscom XMC software is available on the system for special inspections or non-standard components. With the intuitive operation and comprehensive analysis functions, the inspection objects can be easily and precisely checked. In addition, **3D** reconstruction with the Viscom proprietary XVR computed tomography is also possible here. Thus, in addition to the improved localization of defects, individual slices or section images can also be visualized with this process.

The very special strength of the system is the **fully automatic** X-ray analysis with the Viscom SI software. It combines over 30 years of experience in assembly inspection and is **especially orient**ed to SMD production. And so the well-known Viscom inspection depth of the X7056 inline family is also available for the offline world. Yet another advantage is the uniform user interface. This saves training expense and facilitates communication between different inspection systems.

The practical feature **Viscom Quality Uplink** can be used for the X8011-II PCB. By linking the inspection results from SPI, AOI, AXI and MXI, this function provides a **simplified classification** and **effective process control**. For example, all inspection data from the Viscom 3D solder paste inspection can be displayed on the verification station of the X8011-II PCB. **Defect causes** are **easier to track down** and **process optimization** is **simplified**. With these features, the system X8011-II PCB offers many possibilities in **high performance X-ray inspection**.

Universal, versatile exchangeable modules for perfect sample handling



Viscom Quality Uplink:

SPI analyses/3D data

Object table



Rotation module



Motorized rotation/tilt axis



CT axis

Technical Specifications



X8011-II PCB eco X8011-II PCB plus X8011-II PCB flex

Image Diagon Proven (at 90 k Detecto Additic rotation X-ray c Software User in Availat System computer Operat Monito Inspection object handling Max. to Max. ro Inspect Sample Option: Software	oltage	transmission tube (c 20 - 130 kV / 20 - 160 50 - 300 µA / 5 - 1000 max. 20 W / max. 40 max. 35 times / max High resolution 7.3" FPD, 14 bit < 16 - 50 µm / < 4 µm 0° Designed to meet rec with German Radiati tection Ordinance (St dards for worldwide Viscom XMC / Visco BGA analysis softwa QFN analysis softwa Fully automatic Visc XVR-CT software (pl Verification station V Viscom Quality Upli for process optimiza	D μA W . 2650 times n / < 1.5 μm 0 - 60° quirements for fully prote on Protection Act (StrlSch trlSchV), CE mark and add use. Radiation leakage ra m SI optional are re get (surface analysis) om SI analysis software anar, rotary) fiscom HARAN nk to AOI, AXI, and SPI f	r tube, < 1.5 μm) max. 40 W max. 2650 times High resolution 11" FPD, 14 bit 0 - 60° cted devices in accordanc G), German Radiation Pro ditional international stan- te < 1 μSv/h
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Max. tr Max. rc Inspect Sample Optiona Other system data <u>Power</u> System		X-Y-Z		
Max. tr Max. rc Inspect Sample Optiona Other system data <u>Power</u> System	ulator		X-Y-Z plus rotation mod	dule
Inspect Sample Option Other system data Power System	able travel range	Horizontal x/y-axis: 4 Vertical z-axis: 290 n	460 mm x 435 mm (18.1'	
Sample Option Other system data Power System	otation module travel range	_		nm x 430 mm (13.8" x 16.9 (11.4")
Sample Option Other system data Power System	tion object weight	Up to 10 kg (22 lbs)	(with rotation module, 5	ka/11 lbs)
Other system data Power System	e change	Motorized window of		5
Other system data Power System	al additional axes available	Yes	P3	
Power System				
System	· · · · · · · · · · · · · · · · · · ·	000 V (ath an us lts as		C A
	requirements		s on request), 1P/N/PE, 1 2007 mm x 1420 mm (W	
weight	n dimensions	Approx. 1144 mm x 2 Approx. 2100 kg (46		A 11 X DJ (45 X 75 X 55.9
		Approx. 2100 kg (40	30 105/	
Front vi	ew	Side view	Top view	
2007				1666
Dimensions in mm	1144	1420 2495		R 1065

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